

## World Space Congress • 2002



The city of Houston is preparing for the upcoming World Space Congress 2002, the “meeting of the decade for space professionals” (see *article on page 3*)

# Horizons

November 2001

AIAA Houston Section ◆ ONLINE ◆ [www.jsc.nasa.gov/aiaa](http://www.jsc.nasa.gov/aiaa)

*News   Membership   Upcoming Events   Committees   Leadership   Horizons*

## Becoming an AIAA member

Are you interested in becoming a member of the AIAA or renewing your membership? You can fill out a membership application online by going to the AIAA membership website at [www.aiaa.org/information](http://www.aiaa.org/information).

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## November 15 Input Deadline for the Next Edition of *Horizons*

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# Chairman's Corner

By Darby Cooper, Chairman

Welcome to the inaugural *Horizons* issue for 2001-2002!! Although our "first" newsletter of the year is a bit later than normal, the section has already been active and continues to work to server the aerospace community and our membership.

You will notice on the AIAA Houston Section Organization Chart that the position of Chair-Elect is vacant. Jorge Molina, who began serving as Chair in July received a promotion from The Boeing Company and is now working out of the Boeing Corporate offices in Chicago. Even in this age of telecommuting and data connectivity Jorge felt he would not be able to effectively serve as section chair. As chair-elect, the duties fell to me and I began serving as chair on October 1<sup>st</sup>, nine months earlier than planned! We will be holding a special election in the near future to fill the Chair-Elect position.

The section has already had two outstanding events. Our first dinner meeting was held at the Gilruth on Thursday, August 30<sup>th</sup>, and featured John Chisler, special assistant to NASA/JSC's Chief Financial Officer. Mr. Chisler provided an excellent overview of the NASA budget process. The 2<sup>nd</sup> Annual AIAA Open House was held on Tuesday, October 2<sup>nd</sup>, also at the Gilruth Center. This event provided an opportunity for current and prospective members to socialize and learn about AIAA and upcoming events.

The Executive Council also held a retreat on Saturday, October 13<sup>th</sup>. During this retreat the Council planned for the upcoming events. I'm confident the entire membership will benefit from this activity – as the plans for this year include an exciting collection of programs and substantial improvements to the website and email notice distribution. The section is also working to improve its relationship with local companies, and has completed the first stage of our "Executive Tour" – having held meetings with top executives from NASA, Boeing, Lockheed Martin, and United Space Alliance. While our initial focus has been the "large" companies, we will be making arrangements to visit with the executives from all area companies very soon.

It is promising to be an exciting year for the section. I hope that if you have any suggestions, questions, or concerns feel free to contact me or any of the executive council members.

# World Space Congress • 2002: The New Face of Space

By Darby Cooper, Chairman

It has been called the "meeting of the decade for space professionals." But the World Space Congress • 2002, convening in Houston, is really much more than that because the words "space professionals" barely describes the breadth and depth of space activities in the next 10 years. Like any new world, space offers continually expanding resources for commerce, science, technology, and education. From the discovery of distant planets to medical advancements, from geological exploration to urban planning, from water on Mars to energy sources in developing nations, you'll find it all here. And you'll have an unprecedented look at how advances in space can and does improve life on Earth.

Our theme "The New Face of Space" suggests an expansion of the space community. If any of the following categories match your interests, World Space Congress • 2002 is the best place on Earth to do business in space:

## Scientists, Engineers, and Technologists

- Atmospheric Observation
- Life Sciences and Telemedicine Space Discovery and Exploration
- Information Technology

## Business and Commerce Professionals (Business Development, Market Analysis, Financial Analysis)

- Agriculture
- Geology
- Energy and Power
- Mining
- Financial, Investment, Insurance, Real Estate, Lands Development
- Remote Sensing and Imagery
- Forestry
- Telecommunications, including Satellite and Wireless

## Government and Academia (Policymakers, Administrators, Researchers, Space Agency Officials, Regulators)

- Defense
- Legal
- Economic Development
- Remote Sensing
- Global Positioning Systems
- Urban Planning

## World Space Congress 2002 Overview

- Where: George R. Brown Convention Center in the heart of downtown Houston, Texas
- When: 10-19 October 2002
- Who: 13,000 scientific, technical, business and government leaders, representing every facet of the international space community
- What: The joint gathering of the International Astronautical Federation (IAF), with its associates the International Academy of Astronautics (IAA) and the International Institute of Space Law (IISL), and the Committee on Space Research (COSPAR)
- Organized by: The American Institute of Aeronautics and Astronautics (AIAA) under the auspices of the National Academy of Sciences (NAS)
- [Exhibit Space:](#) 350,000 square feet, allowing ample room for models and full-size space platforms. For details, see [Exhibit Facts](#) in the Exhibiting at WSC section.

## 2000/2001 Section Award Winners

By Darby Cooper, Chairman

The American Institute of Aeronautics and Astronautics (AIAA) is proud to announce the 2000/2001 Section Award winners on September 17<sup>th</sup>, 2001

The Section Awards honor particularly notable performances made by a local section of the Institute working as a unit, and are intended to formally underscore the AIAA conviction that intellectually stimulating section activity is fundamental to a healthy Institute. The Houston Section received accolades for its efforts in Career Enhancement, Communications, Precollege Outreach, Public Policy, and Young Professional Activities.

Several members of the Houston Section Executive Council provided the leadership needed to achieve this national recognition. They included Nicole Smith (NASA) - Young Professionals Chair, John Keener (Lockheed Martin) - Newsletter Editor,

Sophia Bright (Tietronix) - Membership Chair, Joy King (Titan Corp.) – Precollege Chair, and John Bendle (Boeing) – Public Policy Chair. The team of volunteers that orchestrated the first Career Planning and Development (CPAD) workshop were also recognized and includes David Lecher (USA), Mike Gaboury (USA), Kevin Butler (USA), Nicole Smith (NASA), and Sophia Bright (Tietronix).

All awards are bestowed annually in five section categories (based on member size): Very Small - bottom 15.5% of the sections, Small - next 23%, Medium - next 23%, Large - next 23% and Very Large - top 15.5%. The recent growth of the Houston section placed us into the Very Large category for the first time. A cash award and certificate is presented to each of the winning sections: First Place \$500; Second Place \$200; and Third Place \$100. The award period covered section activities from June 1, 2000, through May 31, 2001.

The **Outstanding Section Award** is presented to sections judged on their overall activities and contributions throughout the year. The basis for this award is the Section Annual Report. The winners are:

### Very Small Category

First Place	Delaware	Clyde E. Carr, Section Chair
Second Place	Savannah	Douglas R. McKissack, Section Chair
Third Place	Holoman/Alamogordo	Michael D. Hooser, Section Chair

### Small Category

First Place	Wisconsin	Robert J. Gustafson, Section Chair
Second Place	Vandenberg	Melvin B. Desembrana, Section Chair
Third Place	China Lake	James E. Serpanos, Section Chair

### Medium Category

First Place	Central Florida	Christopher E. Antalek, Section Chair
Second Place	Tucson	Kevin P. Kremeyer, Section Chair
Third Place	Michigan	Andrew D. Santangelo, Section Chair

### Large Category

First Place	St. Louis	Lawrence O. Brase, Section Chair
Second Place	Cape Canaveral	M. Catherine Wright, Section Chair
Third Place	Northern Ohio	Bryan A. Palaszewski, Section Chair

### Very Large Category

First Place	San Francisco	Matthew R. Jardin, Section Chair
Second Place	Alabama/Mississippi	Robert L. Sackheim, Section Chair
Third Place	Dayton/Cincinnati	Maxwell Blair, Section Chair

The **Career Enhancement Award** is presented for section activities that are beneficial to career development, such as: Time Management Workshops, Career Transition Workshops, Career Benefits Workshops (health care reform, financial planning, pension portability, etc.), Technical v. Management Career Path Workshops, Resume Writing, etc. The winners are:

#### Very Small Category

First Place	Delaware	Timothy M. McCardell, CE Officer
First Place	Savannah	Lloyd D. Morgan, Career Enhancement Officer

#### Small Category

First Place	Wisconsin	Daniel J. Gramer, Career Enhancement Officer
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#### Medium Category

First Place	Tucson	Kevin P. Kremeyer, Section Chair & CE Officer
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#### Large Category

First Place	Orange County	Dino Roman, Career Enhancement Officer
Second Place	Cape Canaveral	M. Catherine Wright, Section Chair
Third Place	Northern Ohio	Lois J. Weir, Career Enhancement Officer
Third Place	San Gabriel Valley	Jesse F. Keville, Career Enhancement Officer

#### Very Large Category

First Place	San Francisco	Prasada Rao Gogineni, CE Officer
Second Place	Houston	Nicole Smith, Career Enhancement Officer

The **Communications Award** is presented to sections that have developed and implemented an outstanding communication outreach program during the section year. Winning criteria includes the following: level of difficulty and complexity as well as timeliness, multiple methods of communications, frequency, format and content of the communication outreach. The winners are:

#### Very Small Category

First Place	Delaware	M. David Rosenberg, Newsletter Editor
Second Place	Savannah	Ralph J. Jagielka, Newsletter Editor & Webmaster

#### Small Category

First Place	China Lake	James E. Serpanos, Newsletter Editor
First Place	Wisconsin	Kathy J. Prem, Secretary/Newsletter Editor

#### Medium Category

First Place	Southwest Texas	James D. Walker, Newsletter Editor
Second Place	Tucson	Frank Manning, Newsletter Editor

#### Large Category

First Place	Northern Ohio	Christopher J. Miller, Newsletter Editor
Second Place	Cape Canaveral	William E. Harrell, Newsletter Editor
Third Place	St. Louis	David E. Morgan, Newsletter Editor

#### Very Large Category

First Place	Houston	John F. Keener, Newsletter Editor
Second Place	Dayton/Cincinnati	Richard D. Snyder, Newsletter Editor
Third Place	San Francisco	Morgan M. Bracken, Newsletter Editor

The **Membership Award** is presented for increasing the sections' membership by planning and implementing effective new member recruitment and retention campaigns. The winners are:

#### Very Small Category

First Place	Delaware	M. David Rosenberg, Membership Co-Chair & Sue Ann Cuppett, Membership Co-Chair
First Place	Savannah	Donald D. Freund, Membership Chair

#### Small Category

First Place	Wisconsin	Brant C. White, Membership Chair
First Place	Vandenberg	Eileen H. Wyckoff, Membership Chair

#### Medium Category

First Place	Tucson	Rina S. Fulcher, Membership Chair
Second Place	Central Florida	Eric F. Wood, Membership Chair

#### Large Category

First Place	Cape Canaveral	George T. Cole, Membership Chair
Second Place	San Gabriel Valley	Mark D. Guman, Membership Chair
Second Place	Wichita	Jeffrey B. Drake, Membership Chair
Third Place	San Diego	James D. Peterson, Membership Chair

#### Very Large Category

First Place	San Francisco	Daniel L. Stuart, Membership Chair
Second Place	Houston	Tsutsumi Sophia Bright, Membership Chair
Third Place	Alabama/Mississippi	Victor J. Giuliano, Membership Chair

The **Precollege Outreach Award** is presented to sections' that have developed and implemented an outstanding precollege (K-12) outreach program that provided quality educational resources for the Nation's K-12 teachers in the areas of science, mathematics, and technology. The winners are:

#### Very Small Category

First Place	Savannah	Patrick C. Connor, Precollege Chair
Second Place	Delaware	Edward C. Painter, Precollege Chair

### Small Category

First Place	Wisconsin	Robert C. Morrow, Precollege Chair
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### Medium Category

First Place	Tucson	Rajka Corder, Precollege Chair
Second Place	Southwest Texas	Jon T. Cutshall, Precollege Chair
Third Place	Michigan	Anthony Talo, Precollege Chair

### Large Category

First Place	Cape Canaveral	John T.R. Dillion, III, Precollege Chair
First Place	Orange County	Brian L. Foist, Precollege Chair
Second Place	Northern Ohio	Gwynn A. Severt, Precollege Chair

### Very Large Category

First Place	San Francisco	Juanita Ryan, Precollege Chair
Second Place	Houston	Joy Conrad King, Precollege Chair
Third Place	Hampton Roads	Thomas E. Pinelli, Precollege Chair

The **Public Policy Award** is presented to sections for stimulating public awareness of the needs and benefits of aerospace research and development, particularly on the part of government representatives, and for educating its members in the value of public policy activities. The winners are:

### Very Small Category

First Place	Delaware	David K. McGrath, Public Policy Officer
Second Place	Savannah	Douglas R. McKissack, Public Policy Officer

### Small Category

First Place	Vanderberg	Donald D. Smith, Public Policy Officer
Second Place	Wisconsin	Matthew Malecki, Public Policy Officer

### Medium Category

First Place	Michigan	Andrew D. Santangelo, Public Policy Officer
Second Place	Tucson	Kevin P. Kremeyer, Public Policy Officer
Third Place	Southwest Texas	James D. Walker, Public Policy Officer

### Large Category

First Place	Northern Ohio	Lois J. Weir, Public Policy Officer
Second Place	Cape Canaveral	Victor M. Tasiemski, Public Policy Officer
Third Place	St. Louis	Richard E. Pinckert, Public Policy Officer

### Very Large Category

First Place	Dayton/Cincinnati	Douglas M. Allen, Public Policy Officer
Second Place	Houston	John R. Bendle, Public Policy Officer
Third Place	San Francisco	Morgan M. Bracken, Public Policy Officer

The **Young Professional Activity Award** is presented to sections that demonstrate excellence in planning and executing successful events which encourage the participation of young members in the AIAA and provide opportunities for leadership at the sectional, regional, and national levels. The winners are:

### Very Small Category

First Place	Delaware	Sue Ann Cuppett, Young Professional Officer
Second Place	Savannah	Kenneth C. Martin, Young Professional Officer

### Small Category

First Place	Wisconsin	J. Arthur Sauer, Young Professional Officer
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### Medium Category

First Place	Central Florida	Christopher E. Antalek, Section Chair & YP Officer
Second Place	Tucson	Kevin P. Kremeyer, Section Chair & YP Officer

### Large Category

First Place	Northern Ohio	Eric J. Pencil, Young Professional Officer
Second Place	San Diego	Sunshine C. Russell, Young Professional Officer
Third Place	Cape Canaveral	Adam Zaricki, Young Professional Officer

### Very Large Category

First Place	Houston	CPAD Planning Team (Nicole Smith, Kevin Butler, Sophia Bright, David Lechner, Mike Gaboury)
Second Place	Hampton Roads	John C. Lin, Young Professional Officer
Third Place	San Francisco	John Van Arsdall, Young Professional Officer

## Automation and Robotics "Lunch and Learn"

*By Dr. Zafar Taqvi, Automation and Robotics Technical Committee Chair*

Technical Committee on Automation and Robotics and International Space Activities Committee jointly organized a lunch and learn program on Friday, July 13th at the Gilruth Center, NASA/JSC. We were fortunate to have Dr. Jaromir Volf, Associate Profes-

sor, Mechanical Engineering, Czech Technical University and Czech Agricultural University, a guest speaker from Prague, Czech Republic. He presented his talk on "Tactile Sensors and Transducer for Biomechanics Application"

A very unique aspect of his presentation was the practical application of his new pressure sensors in medical field. Through his many experimental results he showed how such a sensor could detect diabetes in patients by just using the pattern recognition data of the foot imprints.

Dr. Volf graduated in Electrotechnical Engineering from Czech Technical University, Prague in 1978 specializing in Technical Cybernetics, and Control Techniques; receiving Ph.D. in Technical Cybernetics from Czech Technical University in 1981.

His research interests include Electrotechnics and Automatization of Technics, tactile sensors and transducers for automatization and robotics, pattern recognition methods of tactile information, electronic and microelectronics systems, control theory, and biomechanics.

He has been teaching in Czech Technical University since 1979. He currently teaches Electrotechnics and Electronics, and Technical Measurement at Czech Technical University and Control Theory and Automatization Control Systems at Czech Agricultural University

## Welcome New Members to Houston Section of AIAA

*By Sophia Bright, Membership Chair*

On behalf of the Houston Section of AIAA, I would like to recognize and welcome several new and long-standing members to the Houston Section.

Dr. Kyaw T. Aung	Mr. Robert M. Kelso
Mr. Carlton C. Allen	Mr. Nathan Kielman
Mr. Durell M. Ashby	Mr. Young Ha Kim
Mr. John Balcerowski	Dr. Leonard Kramer
Mr. Robert C. Brogdon	Mr. Joseph Kwasnieski
Mr. John R. Carr	Dr. Ronald Lovely
Ms. Nanette Cerna	Mr. Brian P. Macias
Mr. Joe Collard	Dr. Lawrence Matta
Mr. Gerald L. Condon	Mr. Donald L. McCorvey
Mr. Justin Cook	Dr. John Melcher
Dr. Bradley Files	Mr. Tri X. Nguyen

Mr. Alvin Eisenberg	Mr. Luke E. Penrod
Mr. Brian Frale	Mr. S. Michael Ross
Mr. James Geffre	Mr. Henry Schmidt
Ms. Emily Gist	Dr. Alfonso G. Tarditi
Dr. Scott Hickman	Dr. Andrew S. Thomas
Mr. William Holland	Ms. Brenda L. Ward
LCDR James G. Johnson	Mr. Brent West
Mr. Kent B. Joosten	Mr. Fred R. Williams
Ms. Sarah Kazukiewicz	Mr. Neil Woodward

Welcome again to the Houston Section! If any of you would like to find out more about the organization please feel free to visit the section website at <http://jsc.nasa.gov/aiaa/>. Additionally there are a number of activities that we sponsor throughout the year and we encourage the participation of all of our members not only from the aspect of attending the activity, but also in planning and coordinating the activity.

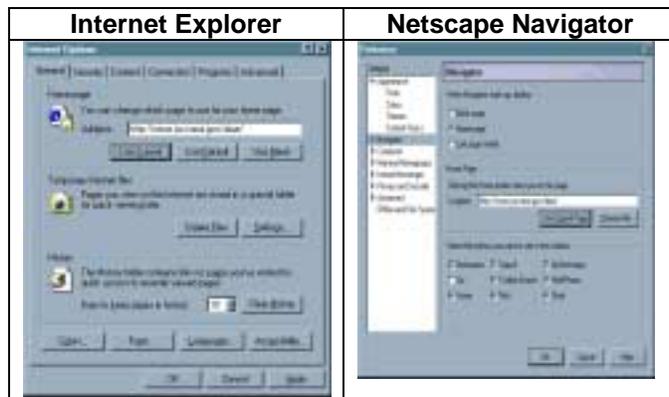
If you have any ideas for activities or services you would like to see from this section please feel free to pass that information on to us. If you have specific Membership questions please feel free to contact me, Sophia Bright, at 281-461-9300, Ext. 234 or [sbright@tietronix.com](mailto:sbright@tietronix.com).

If you have specific questions regarding activities and other services please direct your questions to either myself or other members of the Executive Council.

## Make AIAA Houston Your First Web Stop!!

*By Darby Cooper, Chairman*

Why not set your web browser's homepage to section's web home? Our web address is <http://www.jsc.nasa.gov/aiaa>. Stop by the webpage and then use the following simple steps to make AIAA Houston your 1<sup>st</sup> stop on the Internet. For Internet Explorer users, select "Internet Options" from the View menu - Simply select "Use Current" on the general tab. For Netscape Users, select "Preferences" from the Edit menu



## Your Existing Membership

*By Sophia Bright, Membership Chair*

Are you interested in becoming a member of the AIAA or renewing your membership? You can fill out a membership application online by going to the AIAA National website at <http://store.aiaa.org/memberships.cfm> or call 1-800-NEW-AIAA (639-2422).

Please note, if you have not used the AIAA on-line store then you will need to set up an account before purchasing a new membership (or even if you are renewing your membership). If you are purchasing a new membership the “store” will assign a temporary account access number to you until you have an AIAA membership number assigned to you. All existing members will use their membership numbers to establish an account.

Also, if you know any students who would like to upgrade from a student member to professional member, all they need to do is submit a professional membership form and indicate that they are upgrading. This will enable that person to receive their first year of professional membership free.

If you are or know someone who needs to transfer their membership affiliation to the Houston section, please go or direct them to the following website to update membership information, <http://www.aiaa.org/Members/index.hfm?memo=2>.

If you know anyone who is interested in becoming an AIAA member please direct him or her to the AIAA National website (<http://store.aiaa.org/memberships.cfm>). Table 1 also summarizes the available types of membership and their associated fees. Renewing your current membership can also be done via this website and the fees shown in Table 1 are applicable.

If you have any questions regarding any of the items addressed above please feel free to call AIAA National customer service number listed earlier or contact me, Sophia Bright, at 281-461-9300, Ext. 234. You can also try e-mailing me at [sbright@tietronix.com](mailto:sbright@tietronix.com) if that is more convenient.

## Help AIAA Help You - Update Your Member Records

*By Sophia Bright, Membership Chair*

It is often said that the aerospace industry is the only place where you can have the same job for five years and work for five different companies. That is especially true given the industry wide consolidation that has happened in the last few years. As companies have changed so have the building signs and the business cards. Additionally, our environment provides most people with the ability to move from one company to another as we try to expand our occupational horizons.

With all of these potential changes have you verified if your AIAA member record is up to date? Knowing where our members are working is vital to the Houston Section in obtaining corporate support for local AIAA activities (such as our monthly dinner meeting, workshops, etc.). Please take a few minutes and visit the AIAA website at <http://www.aiaa.org/> to update your member information or call customer service at 1-800-NEW-AIAA (639-2422). Feel free to also contact me, Sophia Bright, Houston Section Membership Chair, at 281-461-9300, Ext 234 if you have questions regarding your membership.

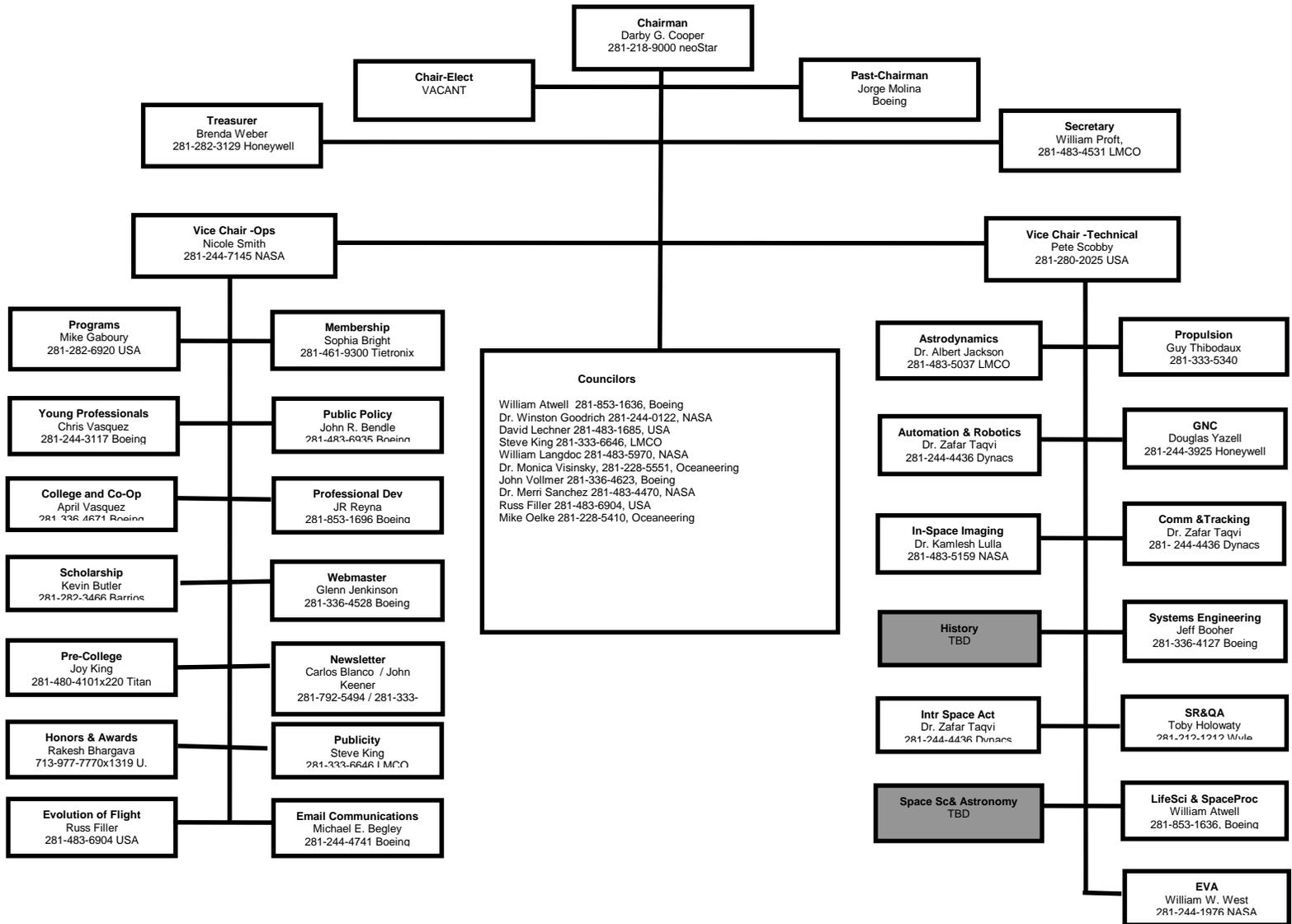
## Becoming an AIAA Member or Renewing

**Table 1: Membership Type Description**

<b>Membership Type</b>	<b>Description</b>	<b>Fee</b>
Student	Persons interested in aeronautics or astronautics whose primary activity is study at a recognized college, university, and secondary schools offering curricula and studies acceptable to the Institute.	\$10 (1 February to 30 June) \$20 (1 July to 31 January)
Return to Full-time Study	Members are eligible for this dues discount when taking 12 credits or more at a recognized college or university. You retain your professional member status.	\$42.50
Associate	Persons interested in the development or application of aeronautics and astronautics.	\$85.00
Young Professional	If you meet the qualifications of Member or Associate Member, are within your first five years of professional practice, 35 years of age or younger and have never been a student member, you are eligible to join at half the current dues rate.	\$42.50
Professional	Persons shall have achieved a Bachelor degree in science or engineering, or equivalent qualifications through professional practice.	\$85.00
Fellow	Fellow Renewal	\$100.00
Spouse	When two members, who meet the requirements of Member or Associate member are married to each other, one of the spouses may pay dues at half the current dues rate. Both members will receive full privileges, but only one copy of Aerospace America will be mailed. Spouse name and ID number are required.	\$42.50
Retired	Any member in good standing who has fully retired may take advantage of this rate. (excludes Fellows, see Retired Fellows).	\$42.50
Retired Fellow	Any Fellow in good standing who has fully retired may take advantage of this rate.	\$50.00
Lifetime	Persons shall have achieved a Bachelor degree in science or engineering or equivalent qualifications through professional practice and wishes to make a one-time dues payment.	\$1275.00
Unemployed	Any member in good standing may take advantage of this rate. You will have to indicate your status at renewal time.	\$42.50

# New Houston Section Org Chart

By Darby Cooper, Chairman



# Calendar of Events

## January 2002

### **Future City Design Competition**

- 7th and 8th graders use SimCity™ computer software to design futuristic cities.

## January – February 2002

### **FIRST Robotics Competition**

- Use hands-on engineering to help high school students build a robot to compete with others in national competitions.

## February 2002

### **Mars Settlement Design Competition**

- Industry simulation weekend for high school students to design a futuristic Mars community.

## **2/17 – 2/23 National Engineers Week**

- Visit classrooms around the Houston area.

## March 2002

### **3/22 Science and Engineering Fair of Houston**

- Judge middle and high school projects to select the AIAA Houston Section prizewinner.

## October 2002

### **10/11 – 10/20 World Space Congress 2002**

- George R. Brown Convention Center, Houston. Event is billed as the “meeting of the decade for space professionals.”



**Houston Section**

P.O. Box 57524  
Webster, TX 77598

Non-Profit Organization  
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